CENSUS OF NEW SOUTH WALES MOSSES

HELEN P. RAMSAY*
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ABSTRACT

Ramsay, Helen P. (School of Botany, University of New South Wales, Kensington, N.S.W. Australia 2033) 1984. Census of New South Wales Mosses. Telopea 2(5): 455-533 — The Census gives a checklist containing 527 species of mosses in 171 genera and 56 families. Compilation of the list is based on literature and information obtained from herbarium specimens in Australian herbaria. The distribution of species is recorded for 13 ecogeographic regions of New South Wales. Included are lists of synonyms, nomina nuda, unsubstantiated records and a bibliography.

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INTRODUCTION

The compilation of a checklist of New South Wales mosses and their distribution was undertaken in an effort to determine how much information was available on New South Wales mosses in the literature and in collections based in Australian herbaria. Reverend W.W. Watts and T. Whitelegge early this century (1902, 1905) published lists of Australian mosses, incorporating information from previous work of Mitten (1856, 1860, 1882) and Forsyth (1899). Watts was responsible for collecting many new species determined by Brotherus in the period 1896–1918. The Census Muscorum Australiensium (Watts and Whitelegge 1902, 1905) was never completed although manuscripts were in the process of being compiled at the time of Watts' death in 1920; the published lists having dealt only with acrocarpous families.

Further work was continued by Burges (1932, 1935) who prepared but never published a census of New South Wales mosses (1952) which incorporated Watts’ manuscript and lists for pleurocarpous families (some 526 species in all).

In 1952 Steere remarked that "Since the Census of New South Wales mosses published by Watts and Whitelegge (1902-1905) no further general work (on Australian mosses) has appeared". It is with the kind permission of Professor Burges, and as a former student of his, that I have much pleasure in being able to complete the project to which so many have contributed. There has been an increase in knowledge of Australian mosses during the last 30 years with Sainsbury’s New Zealand Mosses (1955a), Scott and Stone’s (1976) Mosses of Southern Australia and Catcheside’s (1980) Mosses of South Australia, but details of species distribution and of the sub-tropical species in Australia are still very limited. New South Wales has the most interesting and diverse moss flora in Australia since sub-alpine, arid, temperate and tropical species representative of a large percentage of the families of mosses all occur in this region. From an

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estimated 1,100–1,200 taxa in Australia (D.G. Catcheside, pers. comm.), New South Wales has about 44% represented, Queensland about 33%, Victoria and Tasmania both 30%, South Australia 16% and Western Australia only 8%. It is hoped the Census will act as a stimulus for future collecting and taxonomic work.

METHODS

Collections of New South Wales mosses were examined in most Australian Herbaria (AD, BRI, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) and names and distribution details were obtained for each specimen. The National Herbarium of New South Wales, containing collections of Whitelegge, Forsyth, Watts and others, has been the primary and major source of data for the Census. The distributional data follow the geographical subdivisions used for 'Plants of New South Wales' (Jacobs & Pickard 1981), see map on p.536; within New South Wales these subdivisions are derived from Anderson (1961). As stated in Jacobs & Pickard the "Census serves to indicate the state of the art", and this is true for the mosses where our knowledge is in its infancy. Distributional data, for instance, tell us about where people have collected rather than indicating the true range of the species. Since there has been no bryologist engaged on taxonomic work specifically related to mosses in the National Herbarium of New South Wales since W.W. Watts (1916) (see Ramsay & Briggs 1979) and A. Burges (1952), much is awaiting attention and there are still many unnamed collections.

CRITERIA USED AND ORGANISATION OF DATA

The Census is arranged by families according to Crosby & Magill (1978). Within each family, genera, then species are listed alphabetically. Synonyms appear in the Census and are also listed in a separate index. Taxonomic and nomenclatural changes from literature were included up to the time of going to press, data having been derived from Index Muscorum (Wijk et al. 1959-1969) and supplements from Crosby (1977, 1979, Crosby & Bauer 1981) as well as from published revisions by individual taxonomists (see Bibliography). Name changes in literature have been accepted as relating to the name on the packet unless, or until, the specimen has been examined by an expert or renamed.

It must be stressed that verification has only been possible where specialists have borrowed and checked determinations. The work contains only published names and combinations except in the genus Macromitrium for which a revision of Australian species is in manuscript (Vitt & Ramsay) and Racopilum under review by van Zanten who has examined all relevant specimens.

A taxon is recorded as present in any region if at least one specimen with that name is available in an Australian herbarium or private collection. Reliability of identification may be questioned where few specimens of a particular taxon have been found and for this reason where collections are for 3 or fewer specimens for a particular area this is indicated. Species records not supported by specimens are listed separately at the end of each genus as 'previous record not substantiated'. Nomina nuda which have not been accounted for in the synonymy in the Census are treated separately (p.509).

Distribution of taxa in other states of Australia (extra-N.S.W.) is indicated as well as the extra-Australian range. These data are included for convenience but are not necessarily definitive. Within New South Wales, distribution is shown by the ecogeographic regions used by Jacobs & Pickard (1981) based on Anderson (1961). Lord Howe Island species are included since the island is politically part of New South Wales. The distribution also encompasses the Australian Capital Territory (A.C.T.) which is geographically located in the Southern Tablelands Division of New South Wales. Extra-Australian distributions follow the regions named in Jacobs & Pickard (1981) and listed on page 459 here.
The paucity of species and collections within some regions highlights the need for further work and more intensive surveys of distribution. The original data, which include collectors’ notes for some 20,000 specimens, will remain available so that lists within regions may be compiled and added to as new collections are made, particularly with a view to increasing our knowledge of ecological preferences for species. Already it is clear that many species have been collected from only a limited area or have a very restricted distribution. Such species should be studied thoroughly and efforts made to determine their true range.

This Census recognises 527 species (not including 22 unsubstantiated records) in 171 genera from 56 families of mosses. A number of infraspecific taxa add to the total species diversity in the area. In all, 81 species are listed as being restricted in distribution to New South Wales (Ramsay 1984a). Although a large number of new records are included e.g. Drepanocladus uncinatus at Mt. Kosciusko, Brachymenium exile, these have not been highlighted in the list. Relationships between New South Wales species and those in other states of Australia indicate a separation into those sub-tropical species that have been recorded from New South Wales and Queensland only, and those (the majority) with affinities to the temperate bryoflora of southern Australia. Of the sub-tropical species many have been collected only in the MacPherson-Macleay overlap on the border between New South Wales and Queensland. This region is considered as phytogeographically significant for higher plants (Burbidge 1960). A preliminary survey of phytogeographical relationships of the mosses of New South Wales is included separately (Ramsay 1984a). The distributions of mosses within the Australian Capital Territory (Ramsay & Streimann 1984) and on Lord Howe Island (Ramsay 1984b) have also been analysed in separate papers (see pp. 559, 549).

ACKNOWLEDGEMENTS

Financial support from the Australian Biological Resources Study from 1974 to 1979 (incl.) to enable distributional information to be recorded necessitated the complete sorting and repackaging of specimens into a uniform system at the National Herbarium of New South Wales. Without the co-operation of the Director and Staff at the Herbarium in allowing me access at all times and their contribution in repackaging and labelling the collections, the task could not have been completed.

Many others have also assisted freely. The Directors and Staff of various Herbaria (AD, BRI, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) have helped greatly by making collections and facilities available and supplying information when requested. Dr A. Touw, Rijksherbarium, Leiden, has contributed much time and effort in identifying Streimann’s collections from the National Botanic Gardens. Help has also been given by Staff of the British Museum and the V.F. Brotherus Herbarium at Helsinki. Personal thanks to M. Austin, B. Austin, D.G. Catcheside, G. Harden, T. Howard, A. Murray, J. Parram, L. Pedley, G.A.M. Scott, I.G. Stone, H. Streimann and J.H. Willis, who have given me specimens, supplied unpublished lists and/or other information, checked sections of the manuscript, or allowed me access to their private collections. My two assistants, T. Boyd (1976) and P. Wilson (1978), gave invaluable help in sorting, checking and recording data and in collecting and assembling the data for the manuscript. C. Puttock helped with checking, indexing and literature lists. Assistance in reading sections of the manuscript and helpful suggestions given by H. Ando, D.G. Catcheside, T. Koponen, W. Margadant, R. Pursell, G.A.M. Scott, I.G. Stone, D.H. Vitt and B.O. van Zanten are also gratefully acknowledged. Extra distributional data supplied by I.G. Stone were obtained during travel for research projects funded by the Australian Research Grants Committee. The following people examined and checked identification of genera and species of special interest to them — H. Ando, A. Touw, B.O. van Zanten, I.G. Stone, M.A. Bruggemann-Nannenga, J. Lewinsky, D.H. Vitt, T. Koponen, R.D. Seppelt and H. Mohamed.
Their expertise and co-operation proved a most valuable contribution. A. Lonergan, S. Wray, J. Ratcliffe and F. Colman have helped enormously by typing drafts and the final manuscript. The encouragement and patient support of my husband has been of immense help in enabling the work to be completed.

The author accepts full responsibility for any errors or omissions and would appreciate notification of any inaccuracies.

ADDENDA

One species of Archidium Brid. (Archidiaceae) has now been found in New South Wales (I.G. Stone, pers. comm.).

I.G. Stone (pers. comm.) reports the following new records for New South Wales. Details to be published later.

*Bruchia eckloniana* C. Muell. — NWS; V; S Afr
*Ephemerum rehmannii* (C. Muell.) Broth. — SFWP; VSW
*Tortula rhizophylla* (Sak.) Iwats. & Saito — CC; Q; S Afr

The following references have been added since the manuscript was submitted for publication.


**ABBREVIATIONS AND SYMBOLS USED IN TABLE 1**

**Distribution within New South Wales**

<table>
<thead>
<tr>
<th>LHI</th>
<th>Lord Howe Island</th>
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<tbody>
<tr>
<td>C</td>
<td>Coast</td>
</tr>
<tr>
<td>T</td>
<td>Tablelands</td>
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<tr>
<td>WS</td>
<td>Western Slopes</td>
</tr>
<tr>
<td>WP</td>
<td>Western Plains</td>
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</table>

FJP Far Western Plains

N North

C Central

S South

★ number of specimens ≤ 3

● present in the subdivision > 3 collections

○ no sighted or cited specimen from the subdivision

? specimen or cited locality inadequate for reliable record; in the extra-NSW column of Table 1 the "?" precedes the abbreviation for the state to which the doubtful record applies.

Extra-New South Wales Distribution

Q — Queensland, V — Victoria, T — Tasmania, Y — Northern Territory, S — South Australia, W — Western Australia, A — Australian Capital Territory

(included separately here although it lies within the geographical boundaries of N.S.W. [see Ramsay & Streimann 1984] as it is a political entity)

Extra-Australian Distribution

<table>
<thead>
<tr>
<th>N</th>
<th>North, northern or New Malesia The Malay Peninsula, Philippines, Malaysia, Indonesia and New Guinea, a phytogeographic not a political region</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>South, southern</td>
</tr>
<tr>
<td>E</td>
<td>East, eastern</td>
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<tr>
<td>W</td>
<td>West, western</td>
</tr>
<tr>
<td>C</td>
<td>Central</td>
</tr>
<tr>
<td>cosmop</td>
<td>cosmopolitan</td>
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<tr>
<td>Afr</td>
<td>Africa</td>
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<tr>
<td>Amer</td>
<td>America</td>
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<td>As</td>
<td>Asia</td>
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<tr>
<td>Eur</td>
<td>Eur</td>
</tr>
<tr>
<td>I</td>
<td>Island or Islands</td>
</tr>
</tbody>
</table>

Medit Mediterranean region

N Caled New Caledonia

NG New Guinea

NZ New Zealand

Subant I Subantarctic Islands

Oc Oceania

Pac Pacific

Philip Philippines
TABLE 1. DISTRIBUTION AND CHECKLIST OF MOSSES OF NEW SOUTH WALES.
(Families arranged according to Crosby & Magill 1981.) For index to genera and families see p. 532.

<table>
<thead>
<tr>
<th>L</th>
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<th>FWP</th>
<th>EXTRA NSW</th>
<th>EXTRA AUST</th>
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</tbody>
</table>

1. SPHAGNACEAE

SPHAGNUM L.
- S. australe Mitt. ........................................................ o o o o o o o o o o VT...
- S. antarcticum Mitt., S. perichaetale Warnst. ...
- S. beccarii Hampe ........................................................ o o o o o o o o o V...
- S. erythrocalyx auct. non Hampe ...
- S. cristatum Hampe ........................................................ o o o o o o o o QVTA...
- S. decipiens Warnst., S. grandifolium Warnst., S. magellanicum Brd., S. subbicolor Hampe, S. wardellense Warnst. ...
- S. falcatulum Besch. ........................................................ o o o o o o o o...
- S. brotherussii Warnst., C. cuspidatum Erh. ex Hoffm., S. drepanocladium Warnst., S. serratifolium Warnst., S. subsecundum auct. non Nees ...
- S. commutatum Warnst., S. cymbifolioides C. Muell., S. comosum C. Muell., S. nova-zealandicum Mitt., S. pseudorufescens Warnst., S. subcontortum Hampe, S. subsecundum auct. non Nees ...

2. ANDREAEACEAE

ANDREAEA Hedw.
- A. australis Mitt. ........................................................ o o o o o o o o o o VTA...
- A. mutabilis Hook. f. & Wils. ........................................ o o o o o o o o o o QVTA ...
- A. amblyophylla C. Muell. ex Broth., A. rupestris auct. non Hedw. ...
- A. nitida Hook f. & Wils. ............................................. o o o o o o o o o o VTA...

†See Catcheside 1980.
### 3. FISSIDENTACEAE

**FISSIDENS** Hedw.

<table>
<thead>
<tr>
<th>Species</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>F. amblyothallioides</em> Broth. &amp; Watts</td>
<td>NZ, Afr, S Amer, Borneo, As, Subant I</td>
</tr>
<tr>
<td><em>F. arbuscular</em> Broth.</td>
<td>Q, N Caled</td>
</tr>
<tr>
<td><em>F. arcuatulus</em> Broth. &amp; Watts</td>
<td>V</td>
</tr>
<tr>
<td><em>F. aristatus</em> Broth.</td>
<td>S</td>
</tr>
<tr>
<td><em>F. asplenoides</em> Hedw.</td>
<td>QVTYS-WA (excl. Oc)</td>
</tr>
<tr>
<td><em>F. australiensis</em> Jaeg.</td>
<td>VT WA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. basilaris</em> C. Muell. &amp; Hampe</td>
<td>QVTSA NZ</td>
</tr>
<tr>
<td><em>F. bryoidioides</em> Broth.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. caldicyton</em> Broth.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. cambewarrae</em> Dix.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. crassipes</em> Wils. ex B.S.G.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. dietrichiae</em> C. Muell.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. praemollis</em> Broth.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. dealbatus</em> Hook. f. &amp; Wils.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. fontanus</em> (Pyl.) Steud.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. forsythii</em> Broth.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. homomallulus</em> C. Muell. ex Dix.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. howeanus</em> Broth. ex Whitel.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. humilis</em> Dix. &amp; Watts</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. leptochlasus</em> C. Muell. ex Rodway</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. longiligulatus</em> Broth. &amp; Watts</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. montecollii</em> Broth. &amp; Watts</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
</tr>
<tr>
<td><em>F. oblongifolius</em> Hook. f. &amp; Wils.</td>
<td>VTSA Eur, As, Afr, N Amer, NZ, Fiji, Oc</td>
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</tbody>
</table>

**Ramsay, New South Wales mosses**
### 3. FISSIDENACEAE (cont’d)

<table>
<thead>
<tr>
<th>L</th>
<th>H</th>
<th>I</th>
<th>C</th>
<th>T</th>
<th>WS</th>
<th>WP</th>
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<td>N</td>
<td>C</td>
<td>S</td>
<td>N</td>
<td>C</td>
<td>S</td>
<td></td>
</tr>
</tbody>
</table>

#### FISSIDENS (cont’d)

- **F. pallidus** Hook. f. & Wils.  
  [F. whiteleggei C. Muell. ex Rodway]
- **F. pungens** C. Muell. & Hampe
- **F. rigidulus** Hook. f. & Wils. ssp. *rigidulus*
- **F. sordidevires** Broth.
- **F. subtenellus** Broth. & Watts
- **F. taylorii** C. Muell.
  [F. brevifolius Hook. f. & Wils., F. etamellus C. Muell. & Hampe,  
  F. macrodus Hampe, F. semilimbatus C. Muell. & Hampe]
- **F. tenelliformis** Broth. & Watts
- **F. tenellus** Hook. f. & Wils.
- **F. vitatus** Hook. f. & Wils.
- **F. wattsii** Broth.
  [Previous record not substantiated:  
  F. ampliretis (C. Muell.,) Broth., F. delicatulus (Aongstr.) Watts & White!, F. perangustatus Broth.]

#### 5. DITRICHACEAE

- **CHRYSOBLASTELLA** Williams
  - **C. chilenis** (Mont.) Reim.  
    [Cheilothela chilenis (Mont.) Broth.]
- **CERATODON** Brid.
  - **C. purpureus** (Hedw.) Brid.  
    [C. convolutus Reichdt., C. stenocarpus Bruch. & Schimp. ex C. Muell.]
- **DISTICHICUM** B.S.G.
  - **D. capillaceum** (Hedw.) B.S.G.

F. pallidus Hook. f. & Wils.  
F. whiteleggei C. Muell. ex Rodway  
F. pungens C. Muell. & Hampe  
F. rigidulus Hook. f. & Wils. ssp. *rigidulus*  
F. sordidevires Broth.  
F. subtenellus Broth. & Watts  
F. taylorii C. Muell.  
F. brevifolius Hook. f. & Wils., F. etamellus C. Muell. & Hampe,  
F. macrodus Hampe, F. semilimbatus C. Muell. & Hampe  
F. tenelliformis Broth. & Watts  
F. tenellus Hook. f. & Wils.  
F. vitatus Hook. f. & Wils.  
F. wattsii Broth.  
F. ampliretis (C. Muell.,) Broth., F. delicatulus (Aongstr.) Watts & White!, F. perangustatus Broth.  
F. chilenis (Mont.) Reim.  
C. convolutus Reichdt.  
C. stenocarpus Bruch. & Schimp. ex C. Muell.  
D. capillaceum (Hedw.) B.S.G.
<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DITRICHUM</strong> Hampe</td>
<td></td>
</tr>
<tr>
<td>D. brachycarpum Hampe</td>
<td>NZ, Subant</td>
</tr>
<tr>
<td>D. brevirostre (R. Br. ter.) Broth.</td>
<td>NZ, Subant</td>
</tr>
<tr>
<td>D. cylindricarpum (C. Muell.) F. Muell.</td>
<td>NZ</td>
</tr>
<tr>
<td>D. difficiile (Dub.) Fleisch.</td>
<td>NZ</td>
</tr>
<tr>
<td>D. affine (C. Muell.) Hampe</td>
<td>NZ, S Afr, N&amp;S Amer</td>
</tr>
<tr>
<td>D. rufo-aureum (Hampe) Willis</td>
<td>NZ, S Afr, Subant</td>
</tr>
<tr>
<td><strong>ECCREMIDIUM</strong> Wils.</td>
<td></td>
</tr>
<tr>
<td>E. arcuatum (Hook. f. &amp; Wils.) C. Muell.</td>
<td>QVSW</td>
</tr>
<tr>
<td>E. brisbanicum (Broth.) Stone &amp; Scott</td>
<td>Q</td>
</tr>
<tr>
<td>E. exiguum (Hook. f. &amp; Wils.) Wils.</td>
<td>VW, S Afr</td>
</tr>
<tr>
<td>E. minutum (Mitt.) Stone &amp; Scott</td>
<td>VW, S Afr</td>
</tr>
<tr>
<td>E. pulchellum (Hook. f. &amp; Wils.) C. Muell.</td>
<td>QVTS, WA</td>
</tr>
<tr>
<td>E. whiteleggei Broth.</td>
<td>W, NZ</td>
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<tr>
<td><strong>PLEURIDIU M</strong> Rabenh.</td>
<td></td>
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<tr>
<td>P. arnoldii (R. Br. ter.) Par.</td>
<td>VA, NZ</td>
</tr>
<tr>
<td>P. brachycaulon (C. Muell.) Kindb.</td>
<td>V</td>
</tr>
<tr>
<td>P. curvisetum Stone</td>
<td>V</td>
</tr>
<tr>
<td>P. kraseanum Par.</td>
<td>VSA</td>
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5. DITRICHACEAE (cont'd)

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<td>P. nervosum (Hook.) Mitt.</td>
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<td>[P. gracilentum (Mitt.) Mitt.]</td>
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<td>P. viride (C. Muell.) Kindb.</td>
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6. SELIGERIACEAE

| BLINDIA B.S.G. |   |   |   |   |    |    |     |       |       |
| B. magellanica Schimp. |   |   |   |   |    |    |     |       |       |
| B. robusta Hampe |   |   |   |   |    |    |     |       |       |
| [B. tenuifolia (Hook. f. & Wils.) Mitt.] |   |   |   |   |    |    |     |       |       |

7. DICRANACEAE

| BRUCHIA Schwaegr. |   |   |   |   |    |    |     |       |       |
| B. brevisipes Harv, ex Hook. |   |   |   |   |    |    |     |       |       |
| CAMPYLOPUS Brid. |   |   |   |   |    |    |     |       |       |
| C. austro-subulatus Broth. & Geh.† |   |   |   |   |    |    |     |       |       |
| C. bicolor (C. Muell.) Wils. |   |   |   |   |    |    |     |       |       |
| [C. appressifolius Mitt] |   |   |   |   |    |    |     |       |       |
| C. clavatus var. lutescens Broth. |   |   |   |   |    |    |     |       |       |
| C. introflexus (Hedw.) Brid. |   |   |   |   |    |    |     |       |       |
| [C. pudicus (C. Muell.) Jaeg., C. taumensciscus Par.] |   |   |   |   |    |    |     |       |       |
| C. pallidus Hook. f. & Wils. |   |   |   |   |    |    |     |       |       |
| [C. novae-valetgae Broth. C. torquatus Mitt., C. woollsii (C. Muell.) Par.] |   |   |   |   |    |    |     |       |       |
| C. perauriculatus Broth. |   |   |   |   |    |    |     |       |       |
| C. viridicatus (C. Muell.) Par. |   |   |   |   |    |    |     |       |       |

† Under review by Frahm & Catcheside — probably a new species as Australian populations do not match the New Guinea forms (Catcheside pers. comm.).
DICNEMOLOMA (Ren.) Ren.†
D. pallidum (Hook.) Wijk & Marg.
[D. sieberianum (Hornsch.) Broth.,
Leucoloma sieberianum (Hornsch.) Jaeg.,
Sclerodontium pallidum (Hook.)
[Previous record not substantiated:
D. fraseri (Mitt.) Ren., D. imbricatum Broth.
& Geh., D. strictipilum (C. Muell.) Par.]

DICRANELLA (C. Muell.) Schimp.
D. apophysatula (C. Muell.) Broth.
D. cardotii (R. Br. ter.) Dix.
[D. wattisi Broth.,
Dichodontium wattisi (Broth.) Broth.]
D. dietrichiae (C. Muell.) Jaeg.
[D. tricruris (C. Muell.) Mitt.]
D. jamsonii (Mitt.) Broth.
[Anisotrichium jamsonii Mitt.]
D. pycnoglossa (Broth.) Kindb.
[Anisotrichium pycnoglossum Broth.]
[D. stackhousiana (C. Muell.) Broth.,
Aongstroemia stackhousiana C. Muell.]

DICRANOLOMA Ren.
D. argutum (Hampe) Par.
[Dicranum whiteleggei C. Muell.]
D. austro-scoparium (Broth.) Watts & Whitel.
[Leucoloma austro-scoparium C. Muell. ex Broth.]
D. billardieri (Brid.) Par.
[D. dicarpum Nees Par.
[Dicranum dicarpum (Nees),
Leucoloma dicarpum (Nees) Broth.]
D. robustum (Hook. f. & Wils.) Par. var.
setosum (Hook. f. & Wils.) Sainsb.
[D. serratum (Broth.) Par.
[Leucoloma serratum Broth.]
D. sullivanii (C. Muell.) Par.
[Dicranum sullivanii C. Muell.]

†Retained here as Dicnemoloma although Crosby (pers. comm.) and Crosby & Magill (1981) point out this name is preceded by Sclerodontium.
## 8. DICRANACEAE (cont’d)

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### 9. DICNEMONACEAE

**EUCAMPTODON (Mont.) Mont.**

E. muelleri Hampe & C. Muell. | O | ● | ● | ● | ● | ● | O | O | O | O | O | O | O | O | QV | |

### 11. LEUCOBRYACEAE

**LEUCOBRYUM Hampe**

L. ballinense Broth. | O | * | O | O | O | O | O | O | O | O | O | O | O | O | Q |
L. candidum (P. Beauv.) Wils. .......................................................... · · · · · · · · · · · QVTW NZ, Oc
L. brachyphyllum Hampe.
L. teysmannianum Dozy & Molk.,
L. strictifolium Broth.
L. candidum (P. Beauv.) Wils. var. pentastichum (Dozy & Molk.) Dix. .......................................................... · · · · · · · · · · · NZ
[L. spirostichum C. Muell. in Mitt. nom. nud.,
L. spirostichum C. Muell. in Geh. nom. nud.]
L. subchorophyllosum Hampe
L. turgidulum C. Muell. ........................................................ Ο · · Ο · · · · · · · O
L. wattsii Broth. ........................................................ Ο · · · · · · · · · · · · · · · ·

12. CALYMPERACEAE

CALYMPEROPSIS (C. Muell.) Fleisch.
C. wattsii (Broth.) Fleisch. ........................................................ Ο · · · · · · · · · · · · · · · ·
[Syrrhopedon wattsii Broth.]

SYRHRHOPODON Schwaegr.
S. fimbriatus C. Muell. ........................................................ Ο · · · · · · · · · · · · · · · · Q
S. incompletus Schwaegr. ........................................................ Ο · · · · · · · · · · · · · · · · N&S Amer
[Calympes armatus Broth.]
S. novae-valesiae C. Muell. ........................................................ Ο · · · · · · · · · · · · · · · · Q
S. platyceri Mitt. ........................................................ Ο · · · · · · · · · · · · · · · · Afr

13. ENCALYPTACEAE

ENCALYPTA Hedw.
E. vulgaris Hedw. ........................................................ Ο · · · · · · · · · · · · · · · · VTSA NZ, As, N Amer, Afr
[E. australis Mitt., E. tasmanica Hampe]
[Previous record not substantiated: Ο · · · · · · · · · · · · · · · · V
E. novae-valessiae Hampe]
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<td>C. geheeii</td>
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<td>D. recurvatus</td>
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<td>L. paradoxum</td>
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<td>[L. interruptum (Mitt.) auct. non Broth.]</td>
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**BRYOERTHROPHYLLUM** Chen.

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<tr>
<td>B. rotundatum</td>
<td>(Lindb. &amp; Arn.) Chen.</td>
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<td>[Barbula rotundata Lindb. &amp; Arn., Didymodon rotundatus (Lindb. &amp; Arn.) Par.]</td>
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**CALYPTOPOGON** (Mitt.) Broth.

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<td>C. mnioides</td>
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**CROSSIDIUUM** Jur.

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<td>C. davidai</td>
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<tr>
<td>C. geheeii</td>
<td>(Broth.) Broth.</td>
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**DESMATODON** Brid.

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<td>D. convolutus</td>
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<td>[B. atro-virens (Sm.) Lindb., Barbula atro-virens (Sm.) Schimp., Pottia brachyodus (Hampe) Jaeg.]</td>
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**DIDYMODON** Hedw.

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<td>D. wildii</td>
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**GYMNOSTOMUM** Nees & Hornsch.

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**HYMENOSTOMUM** R. Br.

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<td>H. olivaceum</td>
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<td>H. sullivani</td>
<td>C. Muell. ex Geh.</td>
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**LEPTODONTIUM** (C. Muell.) Hampe ex Lindb.

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<td>L. vitiulosoides</td>
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<td>[Trichostomum subdenticulatum C. Muell.]</td>
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<td>L. paradoxum</td>
<td>Stone &amp; Scott</td>
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### 14. POTTIACEAE (cont'd)

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**POTTIA (Reichenb.) Fuerer.**

- *P. brevicaulis* (Tayl.) C. Muell.
  - **VSW**

- *P. drummondii* (Wils.) J.H. Willis
  - **QVTS-W**

- *P. starckeana* (Hedw.) C. Muell.
  - **VSA** NZ, N Afr, Eur, As, N Amer

- *P. truncata* (Hedw.) B.S.G.
  - **VTSA** Cosmop

**PTERYGONEURUM Jur.**

- *P. kemsleyi* J.H. Willis
  - **VSW**

- *P. ovatum* (Hedw.) Dix.
  - **VSW** Eur, N Afr, As, N Amer

**TETRAPTERUM Hampe ex Jaeg.**

- *T. cylindricum* (Tayl.) Jaeg. [Phascum cylindricum (Tayl.) Mitt.]
  - **QVTYS-WA**

- *T. sullivanii* (C. Muell.) Broth. [Phascum sullivanii C. Muell. — known only from type in BM]

- *T. cirrhata* Broth. [T. subflavovirens Broth. & Watts]
  - **VTSW**

- *T. knightii* (Mitt.) Broth. [T. nano-tortuosa (C. Muell.) Waits & White!]
  - **VT** NZ

- *T. novae-valessiae* Broth.
  - **VTSWA** Cosmop

**TORTELLA (Lindb.) Limpr.**

- *T. cirrhata* Broth. [T. subflavovirens Broth. & Watts]
  - **VTSW**

- *T. knightii* (Mitt.) Broth. [T. nano-tortuosa (C. Muell.) Waits & White!]
  - **VTSW**

- *T. novae-valessiae* Broth.
  - **VTSWA** Cosmop

**TORTULA Hedw.**

- *T. evanesceans* Broth.
  - **Cosmop**

- *T. laevipila* (Bradt.) Schwaegr.
  - **VTSWA** Cosmop

- *T. muralis* Hedw.
  - **VTSWA**

  - **VTSWA**

- *T. oleaginosa* Stone
  - **VSW**

- *T. pagorum* (Milde) de Not. [T. baileyi auct. non Broth.]
  - **QVTSW** Eur, N Amer

  - **QVTS-WA**

- *T. papillosa* Wils.
  - **QVTS-WA**
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<td>T. streptopogoniacea (C. Muell.) Broth.</td>
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<td>T. parramattana Mitt.</td>
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<td><em>Barbula parramattana (Mitt.) Kindb.</em></td>
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<td>TRACHYCARPIDIUM Broth.</td>
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<td>W. perpusilla (C. Muell.) Stone</td>
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†NSW collections of this species examined by Kramer (pers.comm.) include *T. andersonii*, *T. antarctica*, *T. rubella*, and *T. leucostega* as well as *T. princeps.*
### 14A. BRYO BAR TRAMIAEAE

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### 15. GRIMMIAEAE

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<td>[G. alpestris Sommerf.]</td>
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<td>[G. leucocarpa Tayl., G. leucocarpa Grev., G. campestris Burchell ex Hook.]</td>
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<td>G. obtusata (C. Müll. &amp; Hampe Jaeg.)</td>
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<td>[G. cygnicolla Tayl., G. pulvinata (Hedw.) Sm. var. obtusa (Brid.) Hueb.]</td>
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<td>G. trichophylla Grev.</td>
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### RACOMITRUM Brid.

| R. aciculum Dix |   o | o | o | o | o | o | o | o | o | o | o | o | o | V |
| specimen in E (Dixon 1950) |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| R. amoenum (Broth.) Par. |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| R. crispileum (Hedw. f. & Wils.) Hook. f. & Wils. |   o |   o | o | o | o | o | o | o | o | o | o | o | o | QVTWA S Hemis, C Amer |
| [R. sullivani (C. Müll.) Broth., R. symphodon Jaeg.] |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| R. lanuginosum (Hedw.) Brid. var. pruinosa Wils. |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| R. pseudo-patens (C. Müll.) Par. |   o |   o | o | o | o | o | o | o | o | o | o | o | o | VT NZ, S Afr |

### SCHISTIDIU MDMAEAE

| S. apocarpum (Hedw.) B.S.G |   o | o | o | o | o | o | o | o | o | o | o | o | o | QVTS-WA Cosmop |
| specimen in E (Dixon 1950) |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| G. munita Hampe |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
| S. rivulare (Brid.) Podp. ssp. rivulare |   o |   o | o | o | o | o | o | o | o | o | o | o | o | NZ |
| [Grimmia flexifolia Hampe — specimen in BM (Bremer 1980)] |     |     |     |   |   |      |   |   |       |   |   |      |   |         |   |            |             |
16. GIGASPERMACEAE

GIGASPERMUM Lindb.
G. repens (Hook.) Lindb. ..........................

18. EPHEMERACEAE

EPHEMERUM Hampe
E. cristatum (Hook. f. & Wils.) C. Muell. ..........................

19. FUNARIACEAE

FUNARIA Hedw.
F. apophysata (Tayl.) Broth. ..........................
[Entosthodon apophysata (Tayl.) Mitt.]
F. aristata Broth. ..........................
[Entosthodon aristatus (Broth. Par.)]
F. cuspida Hook. f. & Wils. ..........................
F. glabra Tayl. ..........................
[F. crispula Hook. f. & Wils.,
F. tasmanica C. Muell. & Hampe,
F. subnuda Tayl.]
F. gracilis (Hook. f. & Wils.) Broth. ..........................
[Entosthodon gracilis Hook. f. & Wils.]
F. helmsii Broth. in Geh. ..........................
F. hygrometrica Hedw. ..........................
[F. calvscens Schwaegr.
F. hygrometrica Hedw. var. sphaerocarpa C. Muell., F. sphaerocarpa C. Muell.]
F. smithhurstii Broth. & Geh. ..........................
[Entosthodon smithhurstii (Broth. & Geh.)
Par.]
F. squarrifolia Broth. ..........................
[Entosthodon squarrifolius (Broth.) Par.]

GONIOMITRIUM Hook. f. & Wils.
G. acuminatum Hook. & Wils. ..........................
G. enerv Hook. & Wils. ..........................

VTYSW- NZ, S Afr
VTYSW
QVTYS- NZ
WA
VTYSW- NZ
WA
QVTYS- Cosmop
WA
QV

Ramsay, New South Wales mosses
### 19. FUNARIACEAE (cont'd)

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**PHYSCOMITRELLA** B.S.G.
- *Physcomitrella readeri* (C. Muell.) Stone & Scott
  - *P. patens* (Hedw.) B.S.G. var *readeri* (C. Muell.) Tan
- *P. integrifolium* Hampe & C. Muell.
- *P. pyriforme* Brid.
- *P. conicum* Mitt., *P. subserratum* Hampe
- *P. flaccidum* Mitt.

**PHYSCOMITRIUM** (Brid.) Fuernr.
- *P. brisbanicum* C. Muell.
- *P. integrifolium* Hampe & C. Muell.
- *P. pyriforme* Brid.
- *P. conicum* Mitt., *P. subserratum* Hampe
- *P. flaccidum* Mitt.

### 21. SPLACHNACEAE

**SPLACHNOPHYTUM** C. Muell.
- *S. wattsii* Broth.
- *Taylória* Hook.
  - *T. maidenii* Broth.
  - *T. octoblepharum* (Hook.) Mitt.
  - *T. purpurascens* (Hook. & Wils.) Broth.

### 24. BRYACEAE

**BRACHYMENIUM** Schwaegr.
- *B. coarctatum* Bosch. & Lac.
- *B. exile* (Dozy & Molk.) Bosch. & Lac.
- *B. preissianum* (Hampe) Jaeg.
  - *B. chloroblastum* Watts & Whitel.
  - *B. piloshetciun* Watts & Whitel.
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<td>B. argenteum Hedw. var. lanatum (P. Beauv.)</td>
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<td>B. appressifolium Broth.</td>
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<td>B. howeanum Broth. &amp; Watts.</td>
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<td>B. capillare Hedw.</td>
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<td>B. creberrimum Tayl.</td>
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<td>[B. affine Lindb. &amp; Arn. nom. illeg., B. tasmanicum Hampe]</td>
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<td>B. leucocanthum (Hampe) Mitt.</td>
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<td>[B. bicolor Dicks., B. gambierense C. Muell., B. microerythrocarpum C. Muell. &amp; Kindb., B. subaeneum Hampe &amp; C. Muell., B. sullivanii C. Muell.]</td>
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**Locality Codes:**
- QWA: Cosmop
- VT: NZ
- VSW: NZ, N Amer, Eur, As
- VTS: NZ, Amer, Subant I
- QVTS: NZ, S Afr, Oc
- VTA: NZ, S Afr, S Amer, Subant I
- A: Cosmop
- Q: As, Afr, Oc
- QVTY: Cosmop WA
- A: S Amer
B. plumosum Dozy & Molk .................................. O
[B. pachypoma Mont.]
B. pseudotriquetrum (Hedw.) Gaertn. ................. O
[B. austro-affine Broth., B. binum (Brid.) Turn., B. subventricosum Broth.]
B. roseodens C. Muell. ................................ O
B. sauteri B.S.G....................................................... O
B. subapiculatum Hampe ................................ O
B. subfasciculatum (Hampe) Mitt. ......................... O
[B. amoenum Wright non Broth. nom. nud., B. dilatato-marginatum C. Muell., Rhodobryum subfasciculatum, Hampe, Bryum subolivaceum C. Muell., B. viridulum C. Muell. nom. illeg.]
[Previous record not substantiated: B. baerlenii C. Muell., B. brachycladulum C. Muell., B. ischyrodon C. Muell.]
B. subfasciculatum (Hampe) Mitt. ......................... O
[B. amoenum Wright non Broth. nom. nud., B. dilatato-marginatum C. Muell., Rhodobryum subfasciculatum, Hampe, Bryum subolivaceum C. Muell., B. viridulum C. Muell. nom. illeg.]
[Previous record not substantiated: B. baerlenii C. Muell., B. brachycladulum C. Muell., B. ischyrodon C. Muell.]
Wils.

LEPTOBRYUM (B.S.G.) Wils.
L. pyriforme (Hedw.) ......................................... O

MIELICHIOFERIA Nees & Hornsch
M. australis Hampe ......................................... O
[M. forsythii Broth.]
M. bryoides (Harv.) Wijk & Marg. ....................... O
[M. ecklonii Hornsch.]
M. turgens Broth. ........................................... O

ORTHODONTIUM Schwaegr.
O. inflatum (Mitt.) Par. .................................... O
[O. ovale C. Muell. ex Broth., Wilsoniella compacta Geh. in Watts & Whitel. nom. nud.]
O. lineare Schwaegr. ssp. sulcatum (Hook. f. & Wils.) Meijer ......................... O

VTSWA NZ, S Afr, Subant I

S Amer
NZ, Eur
## 24. BRYACEAE (cont’d)

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## 25. LEPTOSTOMATACEAE

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## 26. MNIACEAE

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30. MITTENIACEAE

MITTENIA Lindb.
M. plumula (Mitt.) Lindb. ... ... ... o * * * * * * * * * * QVTWA NZ
[M. rotundifolia (C. Muell.) Par.]

31. CALOMNIIACEAE

CALOMNION Hook. f. & Wils.
C. complanatum (Hook. f. & Wils.) Lindb. ... o o * o o o o o o o o o o NZ
[C. laetum Hook. f. & Wils. nom. illeg.]

32. RHIZOGONIACEAE

GONIOBRYUM Lindb.
G. subbasilare (Hook.) Lindb. ... o o o o o o o o o o VT NZ, Oc;
[G. pellucidum (Mitt.) Broth.]

HYMENODON Hook. f. & Wils.
H. pilifer Hook. f. & Wils. ... o o * o o o o * o o o o o QVT NZ, Oc

LEPTOTHeca Schwaegr.†
L. gaudichaudii Schwaegr. var. gaudichaudii o o o o o * o o o o o QVTA NZ, S Afr,
S Amer

MESOCHAETE Lindb.
M. undulata Lindb. ... * * * * * * o o o o o o o o o QV NZ, SE As

PYRRHOBRYUM Mitt.
P. mnioides (Hook.) Manuel ... o * * * * * * o o o o o o o o o QVTA NZ,
P. parvumattense (C. Muell.) Manuel o * o o o o o o o o o o QVT Norfolk I
[P. mnioides (Hook.) Wils. in Hook.]
P. parramattense (C. Muell.) Manuel [Rhizogonium parramattense (C. Muell.)
[Reichd.]]
P. spiniforme (Hedw.) Manuel [Rhizogonium spiniforme Hedw.]
† See Churchill & Buck (1982).
### 32. RHIZOGONIACEAE (cont'd)

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<td>[R. graeffeanum (C. Muell.) Jaeg., R. geheebii C. Muell.]</td>
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### 33. HYPNODENDRACEAE

#### BRAITHWAITEA Lindb.
- B. sulcata (Hook.) Jaeg.

#### HYPNODENDRON (C. Muell.) Lindb. ex Mitt.
- H. colensoi (Hook. f. & Wils.) Mitt. [Known only from a specimen in NY (Touw 1971)]
- H. comosum (Labill.) Mitt. [Mniodes comosum (Labill.) Lindb.]
- H. spininervium (Hook.) Jaeg. ssp. archeri (Mitt.) Touw [H. arcuatum Hedw. emend. Mitt. pro parte]
- H. viitense Mitt. ssp. australis Touw [H. whiteleggei C. Muell. ex Burges nom. nud., H. arcuatum non Hedw.]

### 34. AULACOMNIACEAE

#### AULACOMNIUM Schwaegr.
- A. palustre (Hedw.) Schwaegr.
### 35. MEESIAECACE

**MEESIA** Hedw.
- *M. muelleri* C. Muell. & Hampe
- *M. triqueta* (Hook. & Tayl.) Aongstr.

### 37. BARTRAMIACEAE

**BARTRAMIA** Hedw.
- *B. hallieri*ana Hedw.  
  - *B. mossmanniana* C. Muell.  
  - *B. hampei* (Mitt.) Catcheside  
  - *Bartramidula hampei* Mitt.,  
  - *Bartramia erecta* (Hampe) Broth. nom. illeg.  
- *B. papillata* Hook. f. & Wils.  
- *B. stricta* Brid.  
- *B. timminoides* C. Muell.  

**BREUTELIA** (B.S.G.) Schimp.
- *B. affinis* (Hook.) Mitt.  
  - *B. commutata* Jaeg. nom. illeg., *Philonotis affinis* (Hook.) Jaeg.  
- *B. pendula* (Sm.) Mitt.  
- *B. divaricata* (Mitt.) Mitt.,  
- *B. fusco-aurea* Broth.,  
- *B. sieberi* (Hornsch. ex C. Muell.) Mitt.  
- *B. pseudo-philonotis* (C. Muell.) Watts & Whitel.  

**CONOSTOMUM** Swartz
- *C. curvirostre* (Mitt.) Mitt.  
- *C. pentastichum* (Brid.) Lindb.  
- *C. australe* Sw.
### 37. BARTRAMIACEAE (cont’d)

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**PHILONOTIS** Brid.
- *P. austro-falcata* Broth. & Watts
- *P. dicranellacea* (C. Muell.) Watts & Whitel.
- *P. jardini* (Besch.) Par.
- *P. pseudomollis* (C. Muell.) Jaeg.
- *P. scabridifolia* (Hook. f. & Wils.) Bracthw.
  - [*P. appressa* (Hook. f. & Wils.) Mitt.,
  *P. remotifolia* (Hook. f. & Wils.) Jaeg.]

**P. slateri** (Hampe) Jaeg.
- *P. tenuis* (Tayl.) Reichdt.
  - [*P. fertilis* (Mitt.) Mitt.,
  *P. pseudomollis* (C. Muell.) Jaeg.]
- *P. tortifolia* (C. Muell.) Watts & Whitel.

**P. appressa** (Hook. f. & Wils.) Mitt.,

**P. remotifolia** (Hook. f. & Wils.) Jaeg.

**38. SPIRIDENTACEAE**

**SPIRIDENS** Nees
- *S. vieillardii* Schimp.
  - [*S. muelleri* Hampe]

**39. TRANSPORTIACEAE**

**PORTINCULARIACEAE**

**40. ERPODIACEAE**

**AULACOPILUM** Wils.
- *A. glaucum* Wils.
- *A. hodgkinsoniae* (Hampe & C. Muell.)
  - Broth.

**41. PTYCHOMITRIACEAE†**

**PTYCHOMITRIUM** Fuernr.
- *P. austral* (Hampe) Jaeg.
  - [*P. damsonii* (Mitt.) Jaeg.,
  *Glyphtomitrium damsonii* Mitt.,
  *Brachysteleum austral* (Hampe) Jaeg.]

† Transferred to Grinmiaceae by Churchill (1982).
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<tr>
<th>Taxon</th>
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<td>Brachysteleum laxifolium C. Muell.</td>
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<td>P. mittenii Jaeg.</td>
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<td>P. serratum (Mitt.) Hook. f. &amp; Wils. nom. illeg.</td>
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<td>Glyphomitrium muelleri (C. Muell.) Broth.</td>
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<td>G. howeanum (Hampe) Broth.</td>
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<td>42. ORTHOTRICHEACEAE</td>
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<td>AMPHIDIUM Schimp.</td>
<td>A. cyathicarpum (Mont.) Broth.</td>
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<td>M. tenue (Hook. &amp; Grev.) Vitt ssp. tenue</td>
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<td>M. pusillum Mitt.</td>
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<td>M. brachypodium C. Muell.</td>
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<td>M. brevisetaceum Hampe</td>
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<td>M. brevicaule (Besch.) Broth.</td>
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<td>M. diaphanum C. Muell.</td>
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<td>M. hemitrichodes Schwaegr.</td>
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<td>M. hortonae Vitt &amp; Ramsay (ms):†</td>
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† Revision by Vitt & Ramsay (manuscript) — only synonyms applicable to NSW collections are included except when clarification with an Australian used name is needed.
‡ Manuscript names, nov. sp. or ssp.
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<td>M. keratii Broth.</td>
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† Manuscript names, nov. sp. or ssp.
### ORTHOTRICHUM Hedw.†

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<td>O. tasmanicum Hook. f. &amp; Wils. var. tasmanicum</td>
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### SCHLOTHEMIA Brid.

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### ZYGODON Hook. & Tayl.

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### 44. RACOPILACEAE

#### RACOPILUM P. Beauv.‡

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† Determined by J. Lewinsky (in press).
‡ Based on studies by van Zanten & Dijkstra (unpubl.).
47. HEDWIGIACEAE

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48. CRYPHAEACEAE

| CRYPHAEA Mohr. | | | | | | | | |
| C. dilatata Hook. f. & Wils. | o | o | o | * | o | o | o | o | o | o | o | o | QV | NZ |
| [C. muelleri (Hampe) Broth., Cryptidium muelleri (Hampe) Broth., Cyptodon dilatatus (Hook. f. & Wils.) Par. & Schimp.] | | | | | | | | |
| C. exannulata Dix. & Sainsb. | o | o | o | o | o | o | o | o | o | o | o | o | QV | NZ |
| [Cryptodon ovalifolius (C. Muell.) Fleisch., Cryptidium ovalifolium (C. Muell.) Broth., Cyptophora squarrosa Hampe, Cryptidium squarrosum (Hampe) Broth.] | | | | | | | | |
| C. tasmanaea Mitt. in Hook. f. & Wils. | o | o | o | o | * | o | o | o | o | o | o | o | o | NZ |
| C. tenella Hornsch. ex C. Muell. | o | o | o | o | o | o | o | o | o | o | o | o | o | NZ |
| [C. brevidens C. Muell.] | | | | | | | | |

50. CYRTOPODACEAE

| BESCHERELLIA Duby | | | | | | | | |
| B. brevifolia Hampe | o | o | o | o | o | o | o | o | o | o | o | o | Q | As, N Amer |
| [B. cyrtopus C. Muell., Cyrtopus bescherellioides C. Muell.] | | | | | | | | |
## 51. PTYCHOMNIACEAE

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## 57. PTEROBRYACEAE

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### 59. PHYLOGONIACEAE†

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†See Lin (1983) for new classification.
60. NECKERACEAE

CALYPTOTHECIUM Mitt.
C. acutum (Mitt.) Broth. .......................................
C. cuspidatum (Okam.) Nog. ..................................
C. humile (Mitt.) Broth. ....................................

LEPTODON Moh.
L. smithii (Hedw.) Web. & Mohr. .......................... [L. australis C. Muell.]

NECKERA Hedw.
N. pennata Hedw. ............................................. [N. hymenodonta C. Muell.]
N. leichhardtii Hampe ........................................... [Known only from specimen in BM.]

THAMNOBRYUM Nieuwl.
T. pandum (Hook. f. & Wils.) Stone & Scott [Thamnium pandum (Hook f. & Wils.) Jaeg., Thamnium etagellare Aongstr.]
T. novae-valesiae Kindb. .......................................

61. LEMBOPHYLACEAE

CAMPTOCHAETE Reichdt.
C. arbuscula (Sm.) Reichd. ..................................
C. ramulosa (Mitt.) Jaeg., Porotrichum arbusculum (Sm.) Mitt.
C. arbuscula (Sm.) Reichd. var. deflexa
(Wils.) Dix. .................................................... [C. brisbanica C. Muell. nom. nud. in synon., C. deflexa (Wils. Jaeg.)]
C. excavata (Tayl.) Jaeg. ......................................
C. gracilis (Hook. f. & Wils.) Par. [Lembophyllum brisbanicum C. Muell. nom. nud.]
C. leichhardtii (Jaeg.) Broth. .................................
### 61. LEMBOPHYLLACEAE (cont’d)

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<td>L. divulsum (Hook. f. &amp; Wils.) Lindb.</td>
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### 62. ECHINODIACEAE

|                  |     |     |     |     |     |     |     |     |     |     |     |     |           |
| ECHINODIUM Jur. |     |     |     |     |     |     |     |     |     |     |     |     |           |
| E. hispidum (Hook. f. & Wils.) Reichdt. |     | * | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | QVT Oc, NZ |
| Sciaromium hispidum (Hook. f. & Wils.) |     |   |   |   |   |   |   |   |   |   |   |     |           |
| E. arboreum Broth. |     |   |   |   |   |   |   |   |   |   |   |     |           |
| E. parvulum Broth. & Watts |     | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |     |           |

### 65. HOOKERIACEAE

<p>| | | | | | | | | | | | | | |
|                  |     |     |     |     |     |     |     |     |     |     |     |     |           |
| ACHROPHYLLUM Vitt &amp; Crosby |     |     |     |     |     |     |     |     |     |     |     |     |           |
| A. dentatum (Hook. f. &amp; Wils.) Vitt &amp; Crosby |     | * | * | * | * | * | 0 | 0 | 0 | 0 | 0 | QVTSA NZ, Afr, Subant I |
| Pierygophyllum dentatum (Hook. f. &amp; Wils.) |     |   |   |   |   |   |   |   |   |   |   |     |           |
| Pierygophyllum nigellum (Hook. f. &amp; Wils. Mitt.) |     |   |   |   |   |   |   |   |   |   |   |     |           |
| A. wattsii (Broth.) Vitt &amp; Crosby |     | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |     |           |
| Pierygophyllum wattsii Broth. |     |   |   |   |   |   |   |   |   |   |   |     |           |</p>
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<th>CYCLODICTYON Mitt.</th>
<th>DISTICHOPHYLLUM Dozy &amp; Molk.</th>
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<tr>
<td>C. apiculata (Hook. f. &amp; Wils.) Vitt.</td>
<td>D. baileyanum C. Muell.</td>
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<td>[Eriopus apiculatus (Hook. f. &amp; Wils.) Mitt.]</td>
<td>D. complanatum (Hampe) Mitt.</td>
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<td>D. crispulum (Hook. f. &amp; Wils.) Mitt.</td>
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<td>C. lepidum (Mitt.) Broth. &amp; Watts</td>
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<td>D. longicuspis Broth.</td>
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<td>[D. leucoloma Broth. nom. nud.]</td>
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<td>[D. rotundifolium (Hook. f. &amp; Wils.) C. Muell. &amp; Broth.</td>
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<tr>
<td>D. microcarpum (Hedw.) Mitt.</td>
<td>D. minutifolium C. Muell.</td>
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<tr>
<td>D. amblyophyllum (Hook. f. &amp; Wils.) Mitt., Mniadelphus amblyophyllum (Hook. f. &amp; Wils.) Jaeg.]</td>
<td>D. subminutifolium (Broth. &amp; Geh.) Fleisch.</td>
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<td>D. whiteleggeanum C. Muell.</td>
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<td>CALYPTROCHAETA Desv.</td>
<td>SAULOMA (Hook. f. &amp; Wils.) Mitt.</td>
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<td>C. apiculata (Hook. f. &amp; Wils.) Vitt.</td>
<td>S. tenella (Hook. f. &amp; Wils.) Mitt.</td>
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<td>[Eriopus apiculatus (Hook. f. &amp; Wils.) Mitt.]</td>
<td>[Mniadelphus subminutifolius Broth. &amp; Geh.]</td>
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| VTSA | NZ, S Amer, Subantt 1 |
| VT | NZ |
| VTSA | NZ |
| QVTSA | NZ |
| T | NZ, S Amer |
| VTA | NZ, S Amer |

Ramsay, New South Wales mosses
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† Known only from specimens at E, NY, BM.
71. LESKEACEAE

**PSEUDOLESKEA** B.S.G.

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<th>Species</th>
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<td><em>P. imbricata</em> (Hook. f. &amp; Wils.) Broth.</td>
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<tr>
<td><em>P. calochlora</em> Broth. &amp; Watts</td>
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<tr>
<td><em>Pseudoleskeopsis imbricata</em> (Hook. f. &amp; Wils.) Ther.</td>
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72. THUIDIACEAE

**ANOMODON** Hook. & Tayl.

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**HAPLOHYMENIUM** Dozy & Molk.

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<td><em>H. pseudotrister</em> (C. Muell.) Broth.</td>
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<tr>
<td><em>H. brevinerve</em> (Broth.) Broth.</td>
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**THUIDIUM** B.S.G.

<table>
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<td><em>T. furfursum</em> (Hook. f. &amp; Wils.) Reichdt.</td>
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<td><em>Thuidiopsis furfurosa</em> (Hook. f. &amp; Wils.) Fleisch.</td>
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<td><em>T. furfursum</em> (Hook. f. &amp; Wils.) Reichdt. var. * sparsum* (Hook. f. &amp; Wils.) Sainsb.</td>
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<tr>
<td><em>T. laevisculum</em> (Mitt.) Jaeg.</td>
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<tr>
<td><em>T. liliputanum</em> Broth.</td>
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<td><em>T. nano-delicatulum</em> (Hampe) Jaeg.</td>
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<td><em>T. plumulosiforme</em> (Hampe) Jaeg.</td>
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<td><em>T. protensulum</em> C. Muell.</td>
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<td><em>T. subglaucinum</em> Card.</td>
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<td><em>T. trachypodinoides</em> Broth. &amp; Watts</td>
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<td>A. chlamydophyllum (Hook. f. &amp; Wils.)</td>
<td>C. Muell. &amp; Broth.</td>
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<td>[A. auriculatum auct. non(Mont.) Mitt.]</td>
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<td>A. astero-hygrophilum Broth.</td>
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<td>A. novae-valesiae Broth. &amp; Watts]</td>
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<td>A. novae-valesiae Broth.</td>
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<tr>
<td>[Acrocladium cuspidatum (Hedw.) Lindb.]</td>
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<td>A. polygamum (B.S.G.) C. Jens.</td>
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<td>C. subrelaxa (Broth.) Broth.</td>
<td>Amblystegium subrelaxum Broth.]</td>
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<td>[Camphylium subrelaxum (Broth.) Broth., Amblystegium subrelaxum Broth.]</td>
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<td>D. aduncus (Hedw.) Warnst.</td>
<td>D. brachiatustr (Mitt.) Dix.</td>
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<td>D. exannulatus (B.S.G.) Warnst.</td>
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<td>D. fluitans (Hedw.) Warnst., also known as Warnstoria fluitans (Hedw.) Loeske</td>
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<td>[Amblystegium fontinaloides (Hampe) Mitt.]</td>
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<td>D. fontinaloides (Hampe) Broth. ex Par.</td>
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D. uncinatus (Hedw.) Warnst., also known as
Sanionia uncinata (Hedw.) Loeske .............................. VTA  
D. tundrae (Arn.) Loeske ........................................ VTA

LEPTODICTYUM (Schimp.) Warnst.
L. riparium (Hedw.) Warnst. .................................... VSA NZ, N  
[L. muelleri (Hampe & C. Muell.) Broth.,  
?Drepanoclados strictifolius Broth. & Watts]

74. BRACHYTHECIACEAE

BRACHYTHECIUM B.S.G.
B. albicans (Hedw.) B.S.G. ........................... VTA N Hemis
B. novae-foresiae Geh. ............................ VTA NZ, S Afr,  
[Known only from type at BM]
B. paradoxum (Hook. f. & Wils.) Jaeg. .......................... A
B. plumosum (Hedw.) B.S.G. .......................... VTA Cosmop
[B. pseudo-plumosum (Brid.) Brockm.]
B. rivulare B.S.G. .................................... VTA Cosmop

B. rutabulum (Hedw.) B.S.G. .......................... VTSA Cosmop
B. salebrosum (Web. & Mohr) B.S.G. .......................... VTA

EURHYNCHIUM B.S.G.
E. austrinum (Hook. f. & Wils.) Jaeg. .......................... VT N Hemis
[Platypodium austrostrum (Hook. f. &  
Wils.) Fleisch., Oxynhrychium austrostrum  
(Hook. f. & Wils.) Broth.]
E. cucullatum (Mitt.) Stone & Scott .......................... QVT NZ
[Rhynchotheiella cucullata (Mitt.) Dix.,  
R. convolutifolia (Hampe) Broth.,  
R. subconvolutifolia Broth. & Watts]
E. muriculatum (Hook. f. & Wils.) Jaeg. .......................... VT NZ
[Rhynchotheiella muriculata (Hook. f. &  
Wils.) Broth.]
E. speciosum (Brid.) Jur. .......................................... Eurl, As  
[Oxynhrychium speciosum (Brid.) Warnst.]  
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E. asperipes (Mitt.) Dix.]
### 74. BRACHYTHECIACEAE (cont'd)

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<td>R. sp. cf. dentiferum (Hampe) Jaeg.</td>
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<td>R. laxatum (Mitt.) Par.</td>
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<td>R. patulum Jaeg.</td>
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<td>R. stramineoides (Sauerb.) Wijk &amp; Marg.</td>
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<td>[R. pseudo-stramineum Mitt. nom. illeg.]</td>
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<td>[R. collatum (Hook. f. &amp; Wils.) Broth. &amp; Watts, R. subclavatum (Hampe) Jaeg.]</td>
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### 75. ENTODONTACEAE

| ENTODON C. Muell. |     |     |       |       |       |     |     |       |       |
| E. mackayensis C. Muell. |    |     |       |       |       |     |     |       |       |
| E. pancherianus (Besch.) Jaeg. |    |     |       |       |       |     |     |       |       |

### 76. PLAGIOTHECIACEAE

| PLAGIOTHECUM B.S.G. |     |     |       |       |       |     |     |       |       |
| P. denticulatum (Hedw.) B.S.G. |    |     |       |       |       |     |     |       |       |
| P. novae-valessiae Broth. |    |     |       |       |       |     |     |       |       |

### 77. SEMATOPHYLLACEAE

<p>| MEIOTHECIUM Mitt. |     |     |       |       |       |     |     |       |       |
| M. wattsii (Broth.) Broth. |    |     |       |       |       |     |     |       |       |
| [Pterogoniella wattsii Broth.] |    |     |       |       |       |     |     |       |       |</p>
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<tr>
<th>Genus</th>
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<tr>
<td><strong>Pungentella C. Muell.</strong></td>
<td>P. subfalcatulum (Broth. &amp; Watts)</td>
<td>C. Muell. [Rhaphidorrhynchium subfalcatulum (Broth. &amp; Watts) Broth., Rhaphidostegium subfalcatulum Broth. &amp; Watts]</td>
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<tr>
<td><strong>Sematophyllum Mitt.</strong></td>
<td>S. aciculum (Dix.) Dix.</td>
<td>[Rhaphidostegium aciculum Broth. ex Dix.]</td>
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<td>S. amoenum (Hedw.) Mitt.</td>
<td>[Rhaphidorrhynchium amoenum (Hedw.) Fleisch., Rhaphidostegium callidioides (C. Muell.) Jaeg., Rhaphidorrhynchium callidioides (C. Muell.) Broth.]</td>
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<td>S. contiguum (Mitt.) Mitt.</td>
<td>[Rhaphidostegium contiguum (Mitt. Par.)]</td>
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<td>S. crassiusculum (Brid.) Broth.</td>
<td>[Rhaphidostegium crassiusculum Brid.]</td>
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<td>S. elachistos (Besch.) Broth.</td>
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<td>S. homomallum (Hampe) Broth.</td>
<td>[Rhaphidorrhynchium homomallum (Hampe) Mitt., Rhaphidostegium homomallum (Hampe) Broth.]</td>
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<td>S. jolliffii (Hook. f.) Dix.</td>
<td>[Rhaphidorrhynchium jolliffii Hook. f.]</td>
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<td>S. luciduloides (Dix.) Mitt.</td>
<td>[Rhaphidostegium luciduloides Dix.]</td>
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<td>S. uncinatum Stone &amp; Scott</td>
<td>[Rhaphidorrhynchium tenuirostre (Hook.) Broth., Rhaphidostegium tenuirostre (Hook.) Jaeg.]</td>
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<td>S. wattsii (Par.) Broth.</td>
<td>[Rhaphidostegium wattsii Par., Rhaphidostegium micropyxis Broth.]</td>
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<td><strong>Taxithelium Spruce ex Mitt.</strong></td>
<td>T. novae-vaiesiae (Broth.) Broth.</td>
<td>[Isopterygium novae-vaiesiae Broth.]</td>
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<td><strong>Trichosteleum Mitt.</strong></td>
<td>T. muscicolum Broth.</td>
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<td><strong>Warburgiella C. Muell.</strong></td>
<td>W. subleptorrhynchoides (Fleisch.) Fleisch.</td>
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### 77. SEMATOPHYLLACEAE (cont'd)

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<td>WJKA Crum</td>
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<td>W. extenuata (Brid.) Crum</td>
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<td>[Acanthocladium extenuatum (Brid.) Mitt., A. crinitum (Hook. f. &amp; Wils.) Broth. in Par.]</td>
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<td>W. crossii (Brot.) Crum</td>
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<td>[Acanthocladium crossii (Brot.) Geh. ex Broth.]</td>
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### 78. HYPNACEAE

**CTENIDIUM** (Schimp.) Mitt.
- C. pubescens (Hook. f. & Wils.) Broth. | • • •★ ★ • ★ * | Q VTA NZ, Oc

**ECTROPOTHECIUM** Mitt.
- E. condensatum Broth. & Watts |   |   |   |   |   |   |   |   |   |   |
- E. howeannum Broth. & Watts |   |   |   |   |   |   |   |   |   |   |
- E. leucochloron (Hampe) Broth. |   |   |   |   |   |   |   |   |   |   |
- E. umbilicatum (C. Muell.) Par. |   |   |   |   |   |   |   |   |   |   |
- E. sydneyense Dix. |   |   |   |   |   |   |   |   |   |   |
[Known only from Type in E (Dixon 1950)]

**HYPNUM** Hedw.
- H. chrysogaster C. Muell. | ★ | o | o | o | o | o | o | o | o | o | o | VT | NZ, S Amer, Subant 1 Cosmop
[Stereodon chrysogaster (C. Muell.) Mitt.]
- H. cupressiforme Hedw. | ★ | * | * | * | * | * | * | * | o | o | o | QVTS-WA | NZ, S Amer, NZ, S Amer, NZ, S Amer
[Stereodon cupressiformis (Hedw.) Mitt., S. walterianum (Hampe) Jaeg.]
- H. cupressiforme Hedw. var. cupressiforme | o | * | * | * | o | o | o | o | o | o | o | VT | NZ, S Amer, NZ, S Amer, NZ, S Amer
- H. cupressiforme Hedw. var. lacunosum Brid. | o | o | * | o | o | o | o | o | o | o | o | VTS | VT
- H. cupressiforme Hedw. var. filiforme Brid. | o | o | o | o | o | o | o | o | o | o | o | VA | S Amer
- H. cupressiforme Hedw. var. mossmanianum (C. Muell.) Ando | o | o | o | o | o | o | o | o | o | o | o | VTA | NZ, S Amer
[H. mossmanianum C. Muell. Stereodon cupressiformis (Hedw.) Brid. var. mossmanii Mitt., Hypnum cupressiformis Hedw. var. mossmanii Mitt. ex. Par. nom. inval.]
- H. subchrysogaster (Broth.) Par. | o | * | o | o | o | o | o | o | o | o | o | Q
ISOPTERYGIUM Mitt.
I. albescens (Hook.) Jaeg. ..................................
I. candidum (C. Muell.) Jaeg. ..................................
I. molliculum (Sull.) Mitt. ..................................
I. amblyocarpum (Hampe) Broth. .........................
I. amoenum Broth. ........................................
I. arachnoideum Broth. ....................................
I. howeanum Broth. & Watts ............................
I. latifolium Broth. ........................................
I. minutirameum (C. Muell.) Jaeg. ......................
I. pseudo-subulatum (C. Muell.) Par. ..................
I. subarachnoideum Broth. ...................................

VESICULARIA (C. Muell.) C. Muell.
V. montagnei (Bcl.) Broth. ................................
V. reticulata (Dozy & Molk.) Besch. ...................
V. rivalis Broth. ...........................................
V. slateri (Hampe) Broth. .................................

VESICULARIA (C. Muell.) C. Muell.
V. montagnei (Bcl.) Broth. ................................
V. reticulata (Dozy & Molk.) Besch. ...................
V. rivalis Broth. ...........................................
V. slateri (Hampe) Broth. .................................

81. BUXBAUMIACEAE

BUXBAUMIA Hedw.
B. colyerae Burges ........................................

83. POLYTRICHACEAE

ATRICHUM P. Beauv.
A. androgynum (C. Muell.) Jaeg. var.
androgynum ..............................................

POGONATUM P. Beauv.
P. brachypodium (C. Muell.) Watts & Whitel. ...
P. camaroe (C. Muell.) Par. .............................
P. subulatum (Brid.) Brid. ..............................

Ramsay, New South Wales mosses

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### 83. POLYTRICHACEAE (cont’d)

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<td>[P. cypellosomium C. Muell.]</td>
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<td>[P. sullivani Hampe]</td>
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### 84. DAWSONIACEAE

**DAWSONIA R. Br.**

<p>| D. longiseta Hampe |   |   |   |   |   |   |   |   |   |   |   | QVTSA |       |
| D. appressa Hampe, D. victoriae C. Muell.] |   |   |   |   |   |   |   |   |   |   |   |       |         |
| D. polytrichoides R. Br. |   |   |   |   |   |   |   |   |   |   |   | QVT | NZ |
| D. superba Grew. var. pulchra (Wijk) Zant. |   |   |   |   |   |   |   |   |   |   |   | QVT | As, NZ |
| [S. pulchra Wijk, D. intermedia C. Muell. ex Schleip. &amp; Geh., D. longisola (Bruch. &amp; Schim. in B.S.G.) Zant. var. superba Zant.] |   |   |   |   |   |   |   |   |   |   |   |       |         |</p>
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Bescherellia cytopus F. Muell. = B. brevifolia
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B. pilosifluecnum Watts & Whitel. = B. preissianum
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Bartramidula hampei Mitt. = Bartramia hampei
**Didymodon rotundatus** (Lindb. & Arn.) Par. = *Bryothrophyllum rotundatum*

*Distichophyllum amblyophyllum* (Hook. f. & Wils.) Mitt. = *D. pulchellum*

*D. fissidentoides* C. Muell. = *D. rotundifolium*

*D. leucoluma* Broth. = *D. longicuspus*

*D. squarrosum* C. Muell. = *D. rotundifolium*

*Distichophyllum affinis* (C. Muell.) Hampe = *D. difficile*

*D. baileyi* C. Muell. = *D. difficile*

*D. elongatum* (Hook. f. & Wils.) Mitt. = *D. cylindricarpum*

*D. flaccidulum* C. Muell. in Wats & White = *D. difficile*

*D. flexifolium* Hampe = *D. difficile*

*D. muelleri* (Hampe) Hampe = *D. difficile*

*D. setosum* (Hook. f. & Wils.) Reichd. = *D. difficile*

*D. subbrachycarpum* (C. Muell.) Par. = *D. brachycarpum*

*Drepanocladus brachiatus* (Mitt.) Dix. = *D. aduncus*

*D. strictifolius* Broth. & Wats = *Leptodictyum riparium*

**Echinodium arboreum** Broth. = *E. hispidum*

*Ectropothecium slateri* (Hampe) Jaeg. = *Vesicularia slateri*

*Encalypta australis* Mitt. = *E. vulgaris*

*E. tasmanica* Hampe = *E. vulgaris*

*Entosthodon apophysata* (Tayl.) Mitt. = *Funaria apophysata*

*E. aristatus* (Broth.) Par. = *Funaria aristata*

*E. gracilis* Hook. f. & Wils. = *Funaria gracilis*

*E. smiththustii* (Broth. & Geh.) Par. = *Funaria smiththustii*

*E. squarrosifolius* (Broth.) Par. = *Funaria squarrosifolia*

*Ephemerum whiteleggei* Broth. & Geh. = *Eccremidium minutum*

*Eriopus apiculatus* (Hook. f. & Wils.) Par. = *Calyptracca apiculata*

*Epitychium cuspidatum* (Mitt.) Mitt. = *E. setigerum*

**Fabronia hampeana** auct. non Sonder = *F. australis*

*F. leptura* Tayl. = *Ischyrodon lepturus*

*F. tayloriana* Hampe = *F. australis*

*Fissidens brevifolius* Hook. f. & Wils. = *F. taylorii*

*F. dietrichiae* C. Muell. = *F. crassipes*

*F. elalmellosus* C. Muell. & Hampe = *F. taylorii*

*F. macrodus* Hampe = *F. taylorii*

*F. muelleri* (Hampe) Mitt. = *F. fontanus*

*F. praemollis* Broth. = *F. crassipes*

*F. semilimbatus* C. Muell. & Hampe = *F. taylorii*

*F. whiteleggei* C. Muell. ex Rodway = *F. pallidus*

*Funaria calvescens* Schwegr. = *F. hygrometrica*

*F. crispula* Hook. f. & Wils. = *F. glabra*

*F. hygrometrica* Hedw. var. *sphaerocarpa* C. Muell. = *F. hygrometrica*

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F. *subnuda* Tayl. = *F. glabra*

F. *tasmanica* C. Muell. & Hampe = *F. glabra*

**Glyphothecium adamsontii** Mitt. = *Ptychomitrium australis*

*G. commutatum* (C. Muell.) Broth. = *Ptychomitrium australis*

*G. howeanum* (Hampe) Broth. = *Ptychomitrium muelleri*

*G. muelleri* (C. Muell.) Broth. = *Ptychomitrium muelleri*

**Gomobryum pelliculatum** (Mitt.) Broth. = *G. subbasilare*

**Grimmia alpestris** Sommerf. = *G. donniana*

*G. apocarpa* Hedw. = *Schistidium apocarpm*

*G. campestris* Burchell ex Hook. = *G. laevigata*

*G. cygnicollia* Tayl. = *G. pulvinata var. africana*

*G. flexifolia* Hampe = *Schistidium rivulare ssp. rivulare*

*G. leucocarpa* Tayl. = *G. laevigata*

*G. leucolephaea* Grev. = *G. laevigata*

*G. mutica* Hampe = *Schistidium apocarpm*

*G. pulvinata* (Hedw.) Sm. var. *obtusa* (Brid.) Heub. = *G. pulvinata var. africana*

**Gymnostomum calcareum** (Nees) Hornsch. = *G. aeruginosum*

**Haplophycium brevireverse** (Broth.) Broth. = *H. pseudotriste*

*Hedwigia albicans* Lindb. = *H. ciliata*

*H. juratzkae* C. Muell. = *H. ciliata*

*H. microcyathae* (C. Muell.) Par. = *H. ciliata*

*Hedwigia imberbe* (Sm.) B.S.G. = *Hedwigia integrifolia*

*H. integrifolium* (P. Beauv.) Dix. = *Hedwigia integrifolia*

*Holomitrium dietrichiae* C. Muell. = *H. perichaetiale*

*H. hodgkinsoniae* C. Muell. = *H. perichaetiale*

*H. muelleri* Hampe = *H. perichaetiale*

*H. whiteleggei* C. Muell. = *H. perichaetiale*

**Homalia acuminata** C. Muell. = *Thamnobryum pumilum*

*Hookeria karsteniana* Broth. & Geh. = *Cyclidicyton lepidum*

*Hyponodendron praenitens* (Hampe) Mitt. = *Pterobryella praenitens*

*Hyponorthogymnia didicyton* C. Muell. = *H. rotulatum*

*H. hyalino-limbata* C. Muell. = *Lopidium concinnum*

*H. novae-seelandiae* C. Muell. = *H. rotulatum*

*H. pallens* (Hook. f. & Wils.) Mitt. = *Lopidium concinnum*

*H. scottiae* C. Muell. = *H. muelleri*

*Hyponodendron arcuatum* non Hedw. = *H. vitiense ssp. australiae*

*H. arcuatum* (Hedw.) Mitt. = *Spiniferium ssp. archeri*

*H. whiteleggei* C. Muell. ex Burges = *H. vitiense ssp. australiae*

*Hypnum cupressiforme* L. var. *mossmanii* = *H. cupressiforme var. mossmanianum*

*H. mossmanianum* C. Muell. = *H. cupressiforme var. mossmanianum*
Papillaria cerina (Hook. f. & Wils.) Par. = P. flavolimbata
P. filipendula (Hook. f. & Wils.) Jaeg. = P. flexicaulis.
P. kermadecensis (C. Muell.) Jaeg. = P. crocea
P. nitidiuscula Broth. = P. nitens
P. scottiae (C. Muell.) Par. = P. flexicaulis
Phasmatum apiculatum Hook. f. & Wils. = Acalon integrifolium
P. sullivani C. Muell. = Tetrapertwrum sullivani
P. tasmanicum Dix. & Rodw. = Acalon crassimervium
Philonitis affinis (Hook.) Jaeg. = Breutelia affinis
P. appressa (Hook. f. & Wils.) Mitt. = P. scabri folia
P. verris (Mitt.) Mitt. = P. tenuis
P. pseudonollis (C. Muell.) Jaeg. = P. tenuis
P. remotifolia (Hook. f. & Wils) Jaeg. = P. scabri folia
Physcomitrella patens (Hedw.) B.S.G. var. readeri (C. Muell.) Tan = P. reade
P. subserratum Hampe = P. conicum
Physcomitrium concum Mitt. = P. pyriforme
Playhymidium australinum (Hook. f. & Wils.) Fleisch. = Eurhynchium australinum
Pleuriidium australis-subulatum Broth. ex Roth = Eccremidium brisbanicum
P. gracilinum (Mitt.) Mitt. = P. nervosum
Pogonatum australis-cum (C. Muell. & Hampe) Jaeg. = P. subulatum
Polhla erythrocsthis (Watts & Whet.) = P. cruda
Polytrichadelphus innovans (C. Muell.) Jaeg. = P. magellanicus
Polytrichum alpinum Hedw. = Polytrichastrum alpinum
P. cyphellimitrum C. Muell. = P. juniperinum
P. pyrarnomitrum C. Muell. = P. juniperinum
P. sullivani Hampe = P. piliferum
Porotrichum arbusculum (Sm.) Mitt. = Camptochaeta arbuscula
P. clavatinum (Hook. f. & Wils.) Mitt. = Lembophyllum divulsum
P. vagum (C. Muell.) Mitt. = Camptochaeta vaga
Pottia brachyodus (Hampe) Jaeg. = Desmatodon subfasciculatum
Psychosclera calochlora Broth. & Watts = P. imbricata
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P. nigellum (Hook. f. & Wils.) Mitt. = Achrophyllum dentatum
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R. homomallum (Hampe) Mitt. = Sematophyllum homomallum
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R. subfasciculatum (Broth. & Watts) Mitt. = Pungentella subfasciculatum
R. tenuirostre (Hook.) Broth. = Sematophyllum uncinatum
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R. muriculata (Hook. f. & Wils.) Broth. = Euryhynchium muriculatum
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S. pseudo-refescens Warnst. = S. molliculum
S. serratifolium Warnst. = S. falcatus
S. subcolor Hampe = S. cristatum
S. subcon
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S. subsecundum aut. non Nees = S. molliculum
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S. wattsii Warnst. = S. falcatus
Spiridens muelleri Hampe = S. vieillardii
Sporidiera minutissima (Dix. & Sainsb.) Sainsb. = Eccremidium whiteleggei
S. whiteleggei (C. Muell.) Broth. = Eccremidium minutum
Stereodon chrysogaster (C. Muell.) Mitt. = Hypnum chrysogaster
S. cupressiformis (Hedw.) Mitt. = Hypnum cupressiforme
S. cupressiformis (Hedw.) Brid. var. mossmanii Mitt. = Hypnum cupressiforme var. mossmanii
S. walterianus (Hampe) Mitt. = Hypnum cupressiforme
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Thamnium eflagellare Aongstr. = Thamnobyrum pandum
T. gracili
num (Hampe) Broth. & Watts = Thamnobyrum purulum
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T. pumilum (Hook. f. & Wils.) Lindb. = Thamnobyrum pumilum

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Thuidium amblystegioides C. Muell. = T. furfurosum
T. hastatum (Mitt.) Reichdt. = T. furfurosum
T. rameniosum (Mitt.) Mitt. = T. cymbiformium
T. suberectum (Hampe) Jaeg. = T. furfurosum
T. unguiculatum (Hook. f. & Wils.) Fleisch. = T. furfurosum
Tortella calycina (Schwaegr.) Dix. = Barbula calycina
T. novo-tortuosa (C. Muell.) Watts & Whitel. = T. knightii
T. subflavovires Broth. & Watts = T. cirrhata
Tortula acuminata Brid. = Barbula unguiculata
T. asperifolia Broth. = T. crawfordii
T. atro-vires (Sm.) Lindb. = Desmatodon convolutus
T. astro-muralis (C. Muell.) Broth. ex Par. = T. muralis
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T. adaeqans Geh. ex Roth = T. suberectus
T. alpinus J.H. Willis = T. flexipes
Trichostomopsis australasiae (Hook. & Grev.) Robinson = Barbula australasiae
Trichostomum subdenticulatum C. Muell. = Leptodontium viticulosoides

Webera nutans Hedw. = Pohlia nutans
W. tenuifolia jaeg. = Pohlia tenuifolia
Weissia flavipes Hook. f. & Wils. = W. controversa
W. truncata C. Muell. = W. controversa
Whiteleggea australis (Broth.) Broth. ex Par. = Hampella pallens
Wilsoniella compacta Geh. in Watts & Whitel. = Orthodontium inflatum

Zygodon brownii Schwaegr. = Z. intermediu
UNSUBSTANTIATED RECORDS OF RECOGNISED SPECIES

Unsubstantiated records of recognised species amongst Australian collections are included to enable checking to be carried out and possible locations of specimens in overseas Herbaria where early collections e.g. those of C. Müller may be deposited.

**Fissidentaceae**
- Fissidens ampliretis (C. Muell.) Broth.
- F. delicatulus *Aongstr.* in Watts & Whitel.
- F. perangustatus Broth.

**Dicranaceae**
- *Fissidens* am pliretis (C. Muell.) Broth.
- *F. perangustatus* Broth.

- *Dicranella stackhousiana* (C. Muell.) Broth.
- *[Aongstroemia stackhousiana* C. Muell.]
- *Dicnemoloma frasen* (Mitt.) Ren.
- *D. imbricatum* Broth. & Geh.
- *D. strictipilum* (C. Muell.) Par.

**Encalyptaceae**
- Encalypta novae-valesiae Hampe

**Pottiaceae**
- *Tortula crawfordii* (Par.) Watts in Watts & Whitel.
- *[T. asperifolia* Broth.]
- *T. parramattana* Mitt.
- *[Barbulaparramattana* (Mitt.) Kind.]

**Funariaceae**
- Physcomitrium flaccidum Mitt.

**Bryaceae**
- *Bryum baueuerlenii* C. Muell.
- *B. brachycladulum* C. Muell.
- *B. ischyrrhodon* C. Muell.

**Bartramiaceae**
- *Breutelia baueuerlenii* (C. Muell.) Watts & Whitel.
- *B. leptodontoides* (C. Muell.) Watts & Whitel.
- *B. lonchopelma* (C. Muell.) Watts & Whitel.

**Ptychomniaceae**
- *Glyphothecium perrotii* C. Muell.

**Neckeraceae**
- *Thamnobryum* (Thamnium) novae-valesiae Kindb.

**Amblystegiaceae**
- *Amblystegium novae-valesiae* Broth. & Watts

**Brachytheciaceae**
- *Eurhynchium asperipes* (Mitt.) Dix.

**Polytrichaceae**
- *Polytrichium recurvipilum* C. Muell.

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**NOMINA NUDA**

The purpose of listing *nomina nuda* is to encourage examination of the material to determine which names should be absorbed into the synonymy and which require validation as new species. The list includes only those names in literature (not names in scheda) which appear in Index Muscorum.

The number of collections (>3 or ≤3) to which the name has been applied and the localities represented by these specimens are included to indicate whether the name has been widely used or not.

- O absent • > 3 collections ★ ≤ 3 collections
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<td>Campylopus brevisetacea <em>Geh. in Watts &amp; Whitel.</em></td>
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<td>Eucamptodon spinicuspus <em>Broth.</em></td>
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<td>Leucobryum baileyanum <em>C. Muell.</em></td>
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<td>B. glaucula <em>Broth.</em></td>
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<td>Desmatodon pachyneurodes <em>C. Muell.</em></td>
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<td>Gymnostomum scabridorum <em>Broth.</em></td>
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<td>H. robustum <em>Broth.</em></td>
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Tortella angusticaulis Watts & Whitel.
T. aristatula Broth. in Watts & Whitel.
Tortula brunnnea Broth. & Watts
T. mollissima Broth. in Watts & Whitel.
T. rotundata Geh. in Watts & Whitel.
Triquetrella albicuspis Broth. in Broth. & Watts
Weissia tortelloides Broth. in Watts & Whitel.
W. whiteleggeana C. Muell. in Watts & Whitel.

19. FUNARIACEAE
Funaria pilifera (Mitt.) Broth.
F. woollsianus C. Muell. in Watts & Whitel.
Physcomitrium novae-valesiae Broth. in Watts & Whitel.

24. BRYACEAE
Bryum leucoloma Broth. in Burg.
B. pseudotriquetrum Broth. in Burg.
B. subinclinatum Watts & Whitel.
B. subleptothecium C. Muell.

37. BARTRAMIACEAE
Philonotis harrisii Geh. in Watts & Whitel.
P. fontanoides Broth. & Watts
P. micropteris Broth. in Watts & Whitel.
P. percapillaris C. Muell. in Watts & Whitel.
P. subsimplex Watts & Whitel.
P. uncinatula C. Muell.
P. whiteleggei Watts & Whitel.

42. ORTHOTRICHAEEAE
Macromitrium hartmannii C. Muell. ex Kindb.
M. richmondiæ Broth. in Watts & Whitel.
(M. subhemirichoides Broth.)
M. shearerі Broth.
(M. microblastum Broth.)
M. rupicola C. Muell. in Watts & Whitel.

48. CRYPHACEAE
Cryphaea viridissima C. Muell.

61. LEMBOPHYLLACEAE
Camptochaete deflexula C. Muell. in Burg.
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<td>Distichophyllum subflexuosum <em>Broth.</em> in <em>Burg.</em></td>
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<td>D. wattsianum <em>Broth.</em></td>
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<td>Fabronia novae-valesiae <em>Geh.</em> in <em>Burg.</em></td>
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<td>Rhynchothegium incurvum <em>Mitt.</em></td>
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<td>Thuidium atrovirens <em>C. Muell.</em></td>
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<td>T. erectum <em>Hampe in Mitt.</em></td>
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<td>T. squallidiusculum <em>C. Muell.</em> in <em>Burg.</em></td>
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<td>?T. sublilliputanum <em>Broth.</em></td>
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<td>Amblystegium campylophodioides <em>Broth.</em> in <em>Burg.</em></td>
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<td>A. orbiculare <em>Jaeg.</em></td>
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<td>(Porotrichium orbiculare <em>Mitt.</em>)</td>
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<td>P. howeanum <em>Jaeg.</em></td>
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<td>Hyocomium brachythecioides <em>Broth.</em></td>
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<td>I. virde-patens <em>C. Muell.</em> in <em>Burg.</em></td>
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<td>Pylaisia pseudo-homomalla <em>Jaeg.</em></td>
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UNSUBSTANTIATED NOMINA NUDA

The following names have appeared in literature but no specimens have yet been located with these names.

**Fissidentaceae**
- Fissidens applanatus *C. Muell.*
- F. perangustus *C. Muell.*
- F. porosus *Hampe*
- F. whiteleggeanus *C. Muell.*
- F. woollahrae *Broth.*

**Dicranaceae**
- Holomitrium novae-valesiae *C. Muell. in Geh.*

**Leucobryaceae**
- Leucobryum australe *Watts & Whitel.*

**Funariaceae**
- Entosthodon cuspidatus *Kiaer in C. Muell.*
- Physcomitrium torquescens *C. Muell.*

**Bryaceae**
- Pohlia pseudopallescens *Hampe in C. Muell.*

**Bartramiaceae**
- Bartramia austro-alpina *C. Muell.*
- Breutelia crawfordii *Watts & Whitel.*
- B. luteola *C. Muell. ex Broth. in Geh.*
- Philonotis austrolitsea *C. Muell. in Jaeg.*
- P. fontanoides *Broth. & Watts*

**Lembophyllaceae**
- Porotrichum decurvatum *Mitt.*

**Brachytheciaceae**
- Rhynchostegium latifolium *Geh.*
- R. obtusissimum *Geh.*
- R. parramattense *Mitt.*

**Sematophyllaceae**
- Acanthocladium macro-extenuatum *C. Muell. in Burg.*
- A. pseudo-extenuatum *C. Muell. in Burg.*
- A. sub-extenuatum *C. Muell. in Burg.*
- Rhaphidostegium tingiringense *Geh. in Burg.*

**Hypnaceae**
- Hypnum subextenuatum *C. Muell.*

New South Wales mosses
BIBLIOGRAPHY

The following articles have been used in preparing the Census list and related papers. References specific to only one of the papers are given separately with the paper if not included here.


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